UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/721,773	11/25/2003	Daniel F. Handman	3586.1000-001	4185
21005 759 HAMILTON BR	02/08/200 OOK, SMITH & RE	EXAM	INER	
530 VIRGINIA R	•	GEISEL, KARA E		
P.O. BOX 9133 CONCORD, MA 01742-9133			ART UNIT	PAPER NUMBER
			2877	
SHORTENED STATUTORY P	ERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		02/08/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
·	10/721,773	HANDMAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kara E. Geisel	2877				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may rill apply and will expire SIX (6) Micause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status	•	·				
1) Responsive to communication(s) filed on 20 No	Responsive to communication(s) filed on 20 November 2006.					
·— · · · ·	· · · · · · · · · · · · · · · · · · ·					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		•				
4)⊠ Claim(s) <u>1,2,4-22 and 24-68</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1,2,4-20,41-44,46-52,59-61 and 65-68</u>						
6) Claim(s) 21,22,24-40,45,53-58 and 62-64 is/are	e rejected.					
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the confidence of the	epted or b) objected t drawing(s) be held in abey on is required if the drawir	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/721,773

Art Unit: 2877

DETAILED ACTION

Response to Arguments

Applicant's arguments, see the amendment, filed November 20th, 2006 (pages 13-14), with respect to claims 1, 17, 21, 37, and 41-42 and their dependent claims have been fully considered and are persuasive. The rejection based on Thomas et al. in view of Stirland of these claims has been withdrawn.

However, upon further consideration, the indicated allowability of claims 40 and 45 is withdrawn, and a new rejection of claims 21-22, 24-40 and 45 is presented. Rejections based on 35 U.S.C. 101 follow.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 21-22, 24-40, 45, 53-58, and 62-64 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

These claims are directed to a process, which recites an abstract idea. This recitation falls within Section 101 Judicial exceptions - Abstract Ideas.

The claims are directed to a judicial exception; as such, pursuant to the Interim Guidelines on Patent Eligible Subject Matter (MPEP 2106), the claims must have either physical transformation and/or a useful, concrete and tangible result. In making this determination, the focus is not on whether the steps taken to achieve a particular result are useful, tangible, and concrete, but rather on whether the **final** result achieved by the claimed invention is "useful, tangible, and concrete". The claims fail to include transformation from one physical state to another in the final step. Although, the claims appear useful and concrete, there does not appear to be a tangible result claimed. Merely determining (claim 21, line 5; claim 32, line 4; claim 37, line 11; claim 40, line 4; claim 45, line 4; claim 63, line 4), and processing

Application/Control Number: 10/721,773

Art Unit: 2877

(claim 27, line 1) would not appear to be sufficient to constitute a tangible result, since the outcome of the determining and processing step has not been used in a disclosed practical application nor made available in such a manner that its usefulness in a disclosed practical application can be realized. As such, the subject matter of the claims is not patent eligible.

The claims dependent on these claims, do not appear to solve the deficiency of these claims, and are therefore, also rejected under 35 U.S.C. 101.

Allowable Subject Matter

Claims 1-2, 4-19, 41-42, and 47-52 are allowed over the prior art of record for the reasons set forth in the amendment, filed November 20th, 2006, on pages 13-14.

Claims 20, 43-44, 46, and 59-61 are allowed over the prior art of record for the reasons set forth in the previous Office Action (paper number 0506).

Claims 21-22, 24-39, and 53-58 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action for the reasons set forth in the amendment, filed November 20th, 2006, on pages 13-14.

Claims 40, 45, and 62-64 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action for the reasons set forth in the previous Office Action (paper number 0506).

Claims 65-68 are allowed over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter:

As to claim 65, the prior art of record, taken alone or in combination, fails to disclose or render obvious an apparatus for determining changes in the shape of an object comprising an electromagnetic radiation source coupled to the object, the object being selected from the group consisting of a building, a bridge, and a tower, responses of sensors indicating angular orientation of a shaped beam with respect to an array, in combination with the rest of the limitations of claim 65.

Additional Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The prior art made of record is Breecher et al. (USPN 4,334,775).

Breecher discloses an apparatus for determining changes in the shape of an object comprising an electromagnetic radiation source adjacent to the object, the object being selected from the group consisting of a building, a bridge, and a tower, the electromagnetic radiation emitting a shaped beam, and an array of reflectors coupled to the object to receive radiation from the radiation source and reflect radiation back to an array of electromagnetic radiation sensors, responses of the sensors indicating angular orientation of the shaped beam with respect to the array.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kara E Geisel whose telephone number is **571 272 2416**. The examiner can normally be reached on Monday through Friday, 8am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on 571 272 2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 571 273 8300.

Art Unit: 2877

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

K.G.

KEG February 1, 2007